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WHITHAM, Michael, E.
11491 Sunset Hills Road
Suite 340
Reston, VA 20190
ETATS-UNIS D'AMERIQUE



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Applicant VIRGINIA COMMONWEALTH UNIVERSITY et al		

The International Bureau transmits herewith the following documents:

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(71) Applicant (for all designated States except US): VIRGINIA COMMONWEALTH UNIVERSITY [US/US]; 800 E. Leigh Street, Suite 113, Richmond, VA 23219 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): DESAI, Umesh, R. [US/US]; 10190 Durhams Ferry Place, Mechanicsville, VA 23116 (US). GUNNARSSON, Gunnar [US/US]; 410 N. 12th Street #542, Richmond, VA 23298 (US).

(74) Agents: WHITHAM, Michael, E. et al.; 11491 Sunset Hills Road, Suite 340, Reston, VA 20190 (US).

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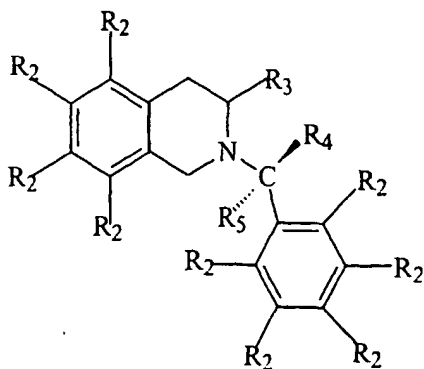
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(54) Title: SULFATED BIS-CYCLIC AGENTS



(1)

(57) Abstract: Sulfated bis-cyclic compounds that are potent anticoagulants and methods for their manufacture are provided. The sulfated compounds are bis-cyclic moieties comprised of an isoquinoline ring joined to a phenyl ring with the general chemical structure formula (I) where R_2 is hydrogen or a sulfate moiety, R_3 is either hydrogen or carboxylate moiety; R_4 is a hydrogen or oxygen; and R_5 is a hydrogen if R_4 is a hydrogen, and is absent if R_4 is oxygen. Counterions such as sodium may also be coordinated to the sulfate and carboxylate moieties.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/15731

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C07D 217/04; A61K 31/47

US CL : 546/146,149; 514/307

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 546/146,149; 514/307

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
NONEElectronic data base consulted during the international search (name of data base and, where practicable, search terms used)
CAS ONLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	Gunnarsson et al. Designing Small, Nonsugar Activators of Antithrombin Using Hydrophobic Interaction Analyses. J. Med. Chem. 2000. Vol. 45, pages 1233-1243.	1-15
A	Gunnarsson et al. Interaction of Designed Sulfated Falvanoids with Antithrombin: Lessons on the Design of Organic Activators. J. Med. Chem. 2002. Vol. 45. pages 4460-4470.	1-15

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
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Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230

Authorized officer

Zinna Northington Davis

Telephone No. 571-272-1600